*Fig. 1A*

*Fig. 1B*

30a

| Name | Datatype | Length | Mandatory | Comments |
|------|----------|--------|-----------|----------|
| DOCUMENT_ID | NUMBER | | Yes | Unique document id |
| PSIG_XML | CLOB | (4000) | | XML document |
| PSIG_DOCUMENT | CLOB | (4000) | | Electronic record as seen by user |
| PSIG_DOCUMENTFORMAT | VARCHAR2 | (100) | | Format of the Document |
| PSIG_TIMESTAMP | DATE | | | Timestamp when the document was requested |
| PSIG_TIMEZONE | VARCHAR2 | (240) | | Time Zone the document was initiated |
| DOCUMENT_REQUESTER | VARCHAR2 | (240) | | Document requester |
| PSIG_STATUS | VARCHAR2 | (32) | | Status of the document (ERROR, PENDING, COMPLETE) |
| PSIG_SOURCE | VARCHAR2 | (32) | | Source of the Document |
| EVENT_NAME | VARCHAR2 | (80) | | Event associated to the document |
| EVENT_KEY | VARCHAR2 | (240) | | Event instance identifier |
| PRINT_COUNT | NUMBER | | | Number of time document requested from printing |
| CREATION_DATE | DATE | | | WHO Column |
| CREATED_BY | NUMBER | | | WHO Column |
| LAST_UPDATE_DATE | DATE | | | WHO Column |
| LAST_UPDATED_BY | NUMBER | | | WHO Column |
| LAST_UPDATE_LOGIN | NUMBER | | | WHO Column |

30b

| Name | Datatype | Length | Mandatory | Comments |
|------|----------|--------|-----------|----------|
| SIGNATURE_ID | NUMBER | | | Signature ID |
| DOCUMENT_ID | NUMBER | | | Document Id Refers EDR_PSIG_DOCUMENTS |
| EVIDENCE_STORE_ID | NUMBER | | | Evidence Store Id if the signature are present in Server Tech Storage |
| USER_NAME | VARCHAR2 | (100) | | User name who signed the Document |
| USER_RESPONSE | VARCHAR2 | (100) | | User Response |
| SIGNATURE_TIMESTAMP | DATE | | | Signed Time and Date |
| SIGNATURE_TIMEZONE | VARCHAR2 | (240) | | Signature Time Zone |
| SIGNATURE_STATUS | VARCHAR2 | (32) | | Signature Status (PENDING, COMPLETE, ERROR) |
| CREATION_DATE | DATE | | | WHO Columns |
| CREATED_BY | NUMBER | | | WHO Column |
| LAST_UPDATE_DATE | DATE | | | WHO Column |
| LAST_UPDATED_BY | NUMBER | | | WHO Column |
| LAST_UPDATE_LOGIN | NUMBER | | | WHO Column |

*Fig. 2*
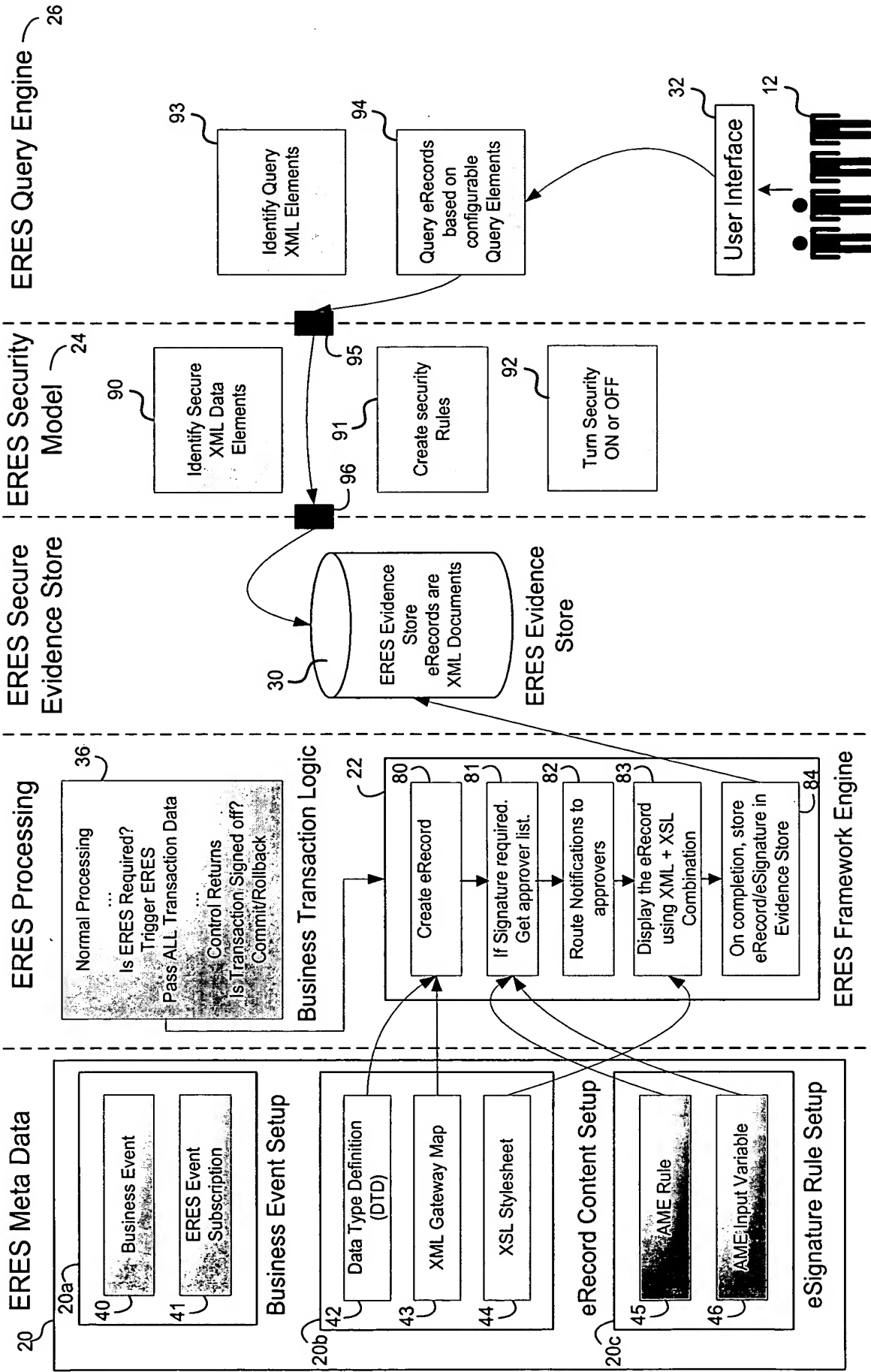
Fig. 3
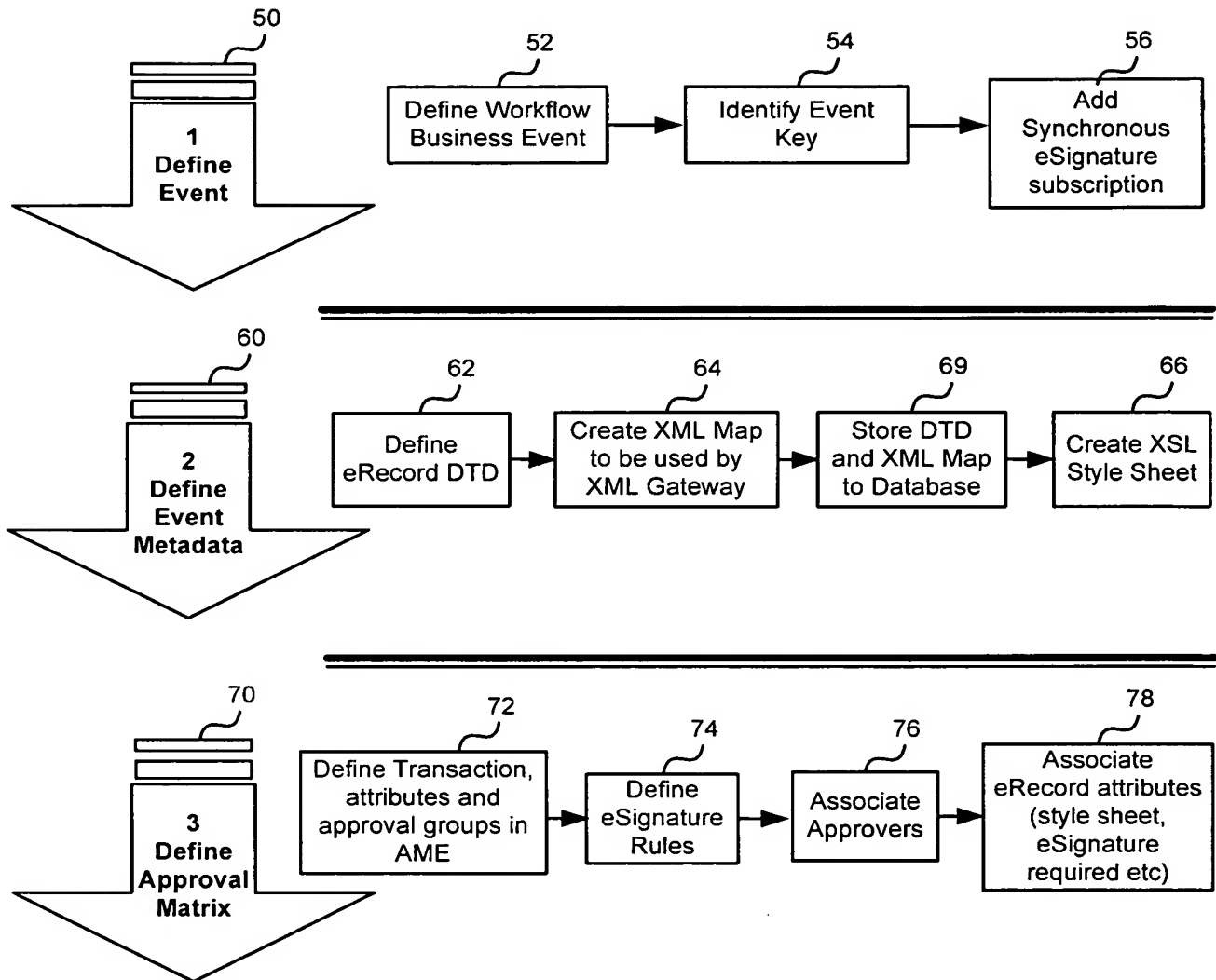
50

**1 Define Event**

52

Define Workflow Business Event

54

Identify Event Key

56

Add Synchronous eSignature subscription

60

**2 Define Event Metadata**

62

Define eRecord DTD

64

Create XML Map to be used by XML Gateway

69

Store DTD and XML Map to Database

66

Create XSL Style Sheet

70

**3 Define Approval Matrix**

72

Define Transaction, attributes and approval groups in AME

74

Define eSignature Rules

76

Associate Approvers

78

Associate eRecord attributes (style sheet, eSignature required etc)

*Fig. 4*

80

## Edit Event ? 

ORACLE

Name | oracle.apps.gme.Batch.close
81

Display Name | Process Batch Close Event
82

Description | This Event is raised when a process batch is closed
83

Status | Enabled ▾
84

Generate Function |

Owner Name | Process Execution

Owner Tag | GME
85

( Submit )  ( Cancel )
86

**Fig. 5**

90

| | Rule | Attribute $\overset{93}{\diagup}$ | Approver(s) $\overset{94}{\diagup}$ |
|---|---|---|---|
| 91 | If PLANT = "Plant 1" And PRODUCT = "Cyanide" | eRecord = Yes eSignature = Yes eRecord Style Sheet = StyleSheet12.X51 | James Dunn and Mark Arthur |
| 92 | If PLANT = "Plant 1" | eRecord = Yes eSignature = No eRecord Style Sheet = NULL | David Anderson |

**Fig. 6**

100
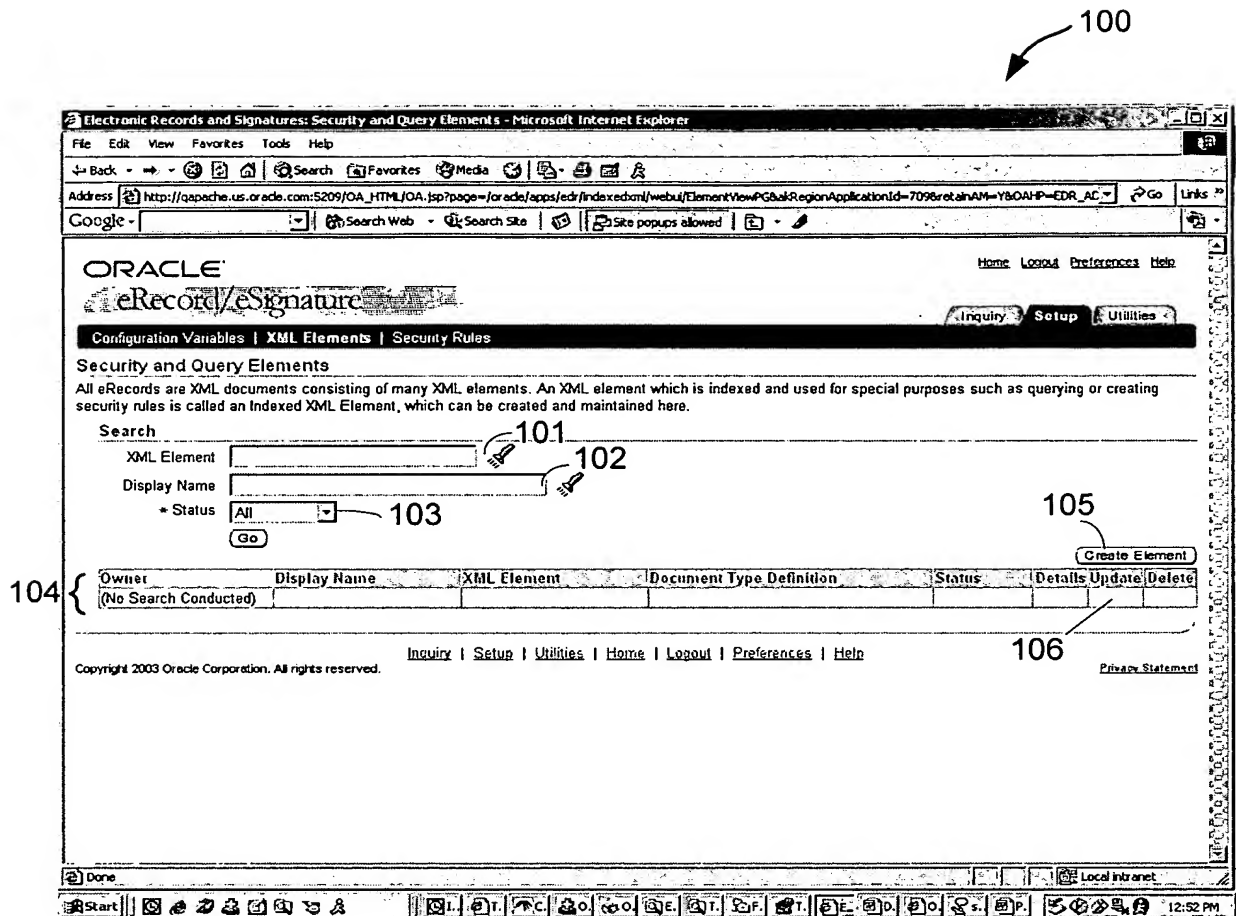


**Fig. 7**
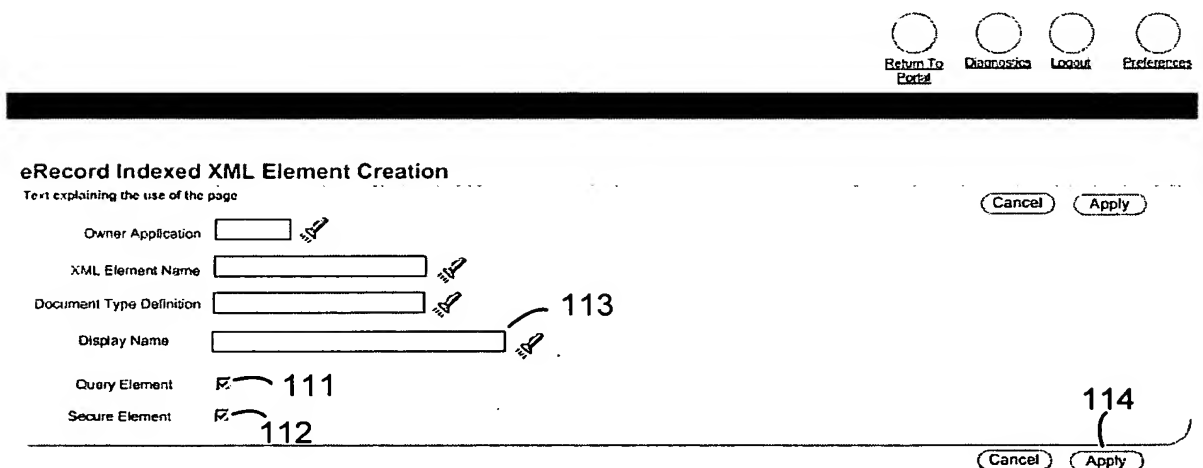


**Fig. 8**

**33a**

| Name | Null? | Type | Description |
|---|---|---|---|
| ELEMENT_ID | NOT NULL | NUMBER | Surrogate Primary Key. |
| XML_ELEMENT | NOT NULL | VARCHAR2(30) | XML element identified as being searchable |
| DTD_ROOT_ELEMENT | | VARCHAR2(30) | Root element of the XML |
| APPLICATION_ID | NOT NULL | NUMBER | Application ID of the application owning the query element. |
| INDEX_SECTION_NAME | NOT NULL | VARCHAR2(30) | Name of the section created in the index for the query element |
| INDEX_TAG | NOT NULL | VARCHAR2(64) | Tag used to create the section in the index. Unique Constraint. |
| STATUS | NOT NULL | CHAR(1) | Status of the query element. It can be I(ndexed) or N(ot Indexed). |
| CREATED_BY | NOT NULL | NUMBER(15) | Standard WHO column |
| CREATION_DATE | NOT NULL | DATE | Standard WHO column |
| LAST_UPDATED_BY | NOT NULL | NUMBER(15) | Standard WHO column |
| LAST_UPDATE_LOGIN | | NUMBER(15) | Standard WHO column |
| LAST_UPDATE_DATE | NOT NULL | DATE | Standard WHO column |

**33b**

| Name | Null? | Type | Description |
|---|---|---|---|
| ELEMENT_ID | NOT NULL | NUMBER | Partial Primary key. |
| LANGUAGE | NOT NULL | VARCHAR2(4) | Partial Primary key. Language used for translatable columns |
| SOURCE_LANG | | VARCHAR2(4) | Source language |
| DISPLAY_NAME | NOT NULL | VARCHAR2(100) | Display name of the query element. This would be visible to end users. |
| DESCRIPTION | | VARCHAR2(100) | Description of the query element. |
| CREATED_BY | NOT NULL | NUMBER(15) | Standard WHO column |
| CREATION_DATE | NOT NULL | DATE | Standard WHO column |
| LAST_UPDATED_BY | NOT NULL | NUMBER(15) | Standard WHO column |
| LAST_UPDATE_LOGIN | | NUMBER(15) | Standard WHO column |
| LAST_UPDATE_DATE | NOT NULL | DATE | Standard WHO column |

**33c**

| Name | Null? | Type | Description |
|---|---|---|---|
| USAGE_ID | NOT NULL | NUMBER | Surrogate primary key |
| ELEMENT_ID | NOT NULL | NUMBER | XML element used in creating the security rule. |
| ELEMENT_USAGE | NOT NULL | CHAR(1) | The usage of the XML element. It can be Q(uery) or S(ecure) |
| CREATED_BY | NOT NULL | NUMBER(15) | Standard WHO column |
| CREATION_DATE | NOT NULL | DATE | Standard WHO column |
| LAST_UPDATED_BY | NOT NULL | NUMBER(15) | Standard WHO column |
| LAST_UPDATE_LOGIN | | NUMBER(15) | Standard WHO column |
| LAST_UPDATE_DATE | NOT NULL | DATE | Standard WHO column |

*Fig. 9*

120

Fig. 10

33d
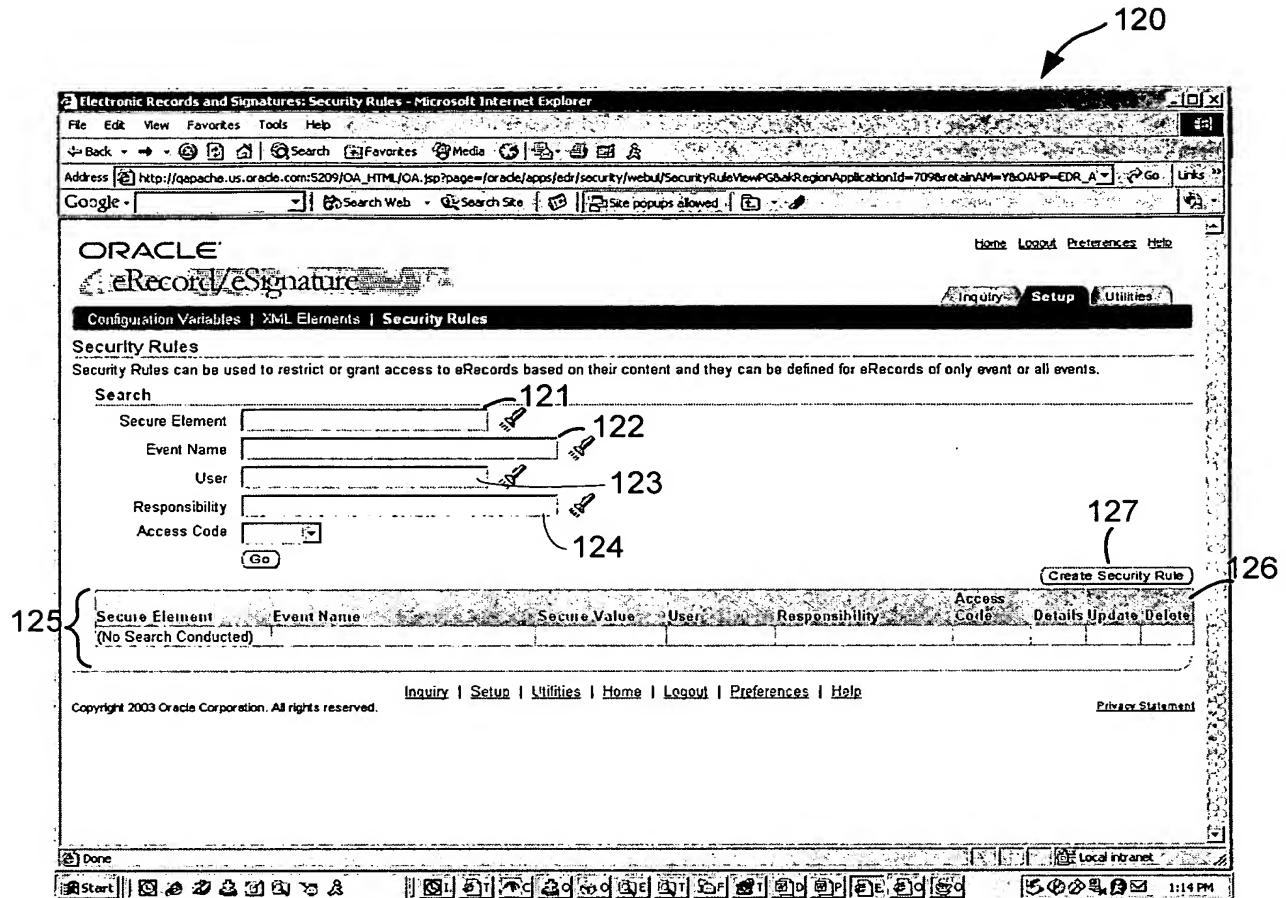
| Name | Null? | Type | Description |
|---|---|---|---|
| RULE_ID | NOT NULL | NUMBER | Surrogate primary key |
| ELEMENT_ID | NOT NULL | NUMBER | XML element used in creating the security rule. |
| EVENT_NAME | | VARCHAR2(240) | Business event name used in creating the security rule. |
| SECURE_VALUE | NOT NULL | VARCHAR2(100) | Value secured by the security rule |
| USER_ID | | NUMBER(15) | User ID of the APPS user for whom security is created |
| RESPONSIBILITY_ID | | NUMBER(15) | Responsibility ID of the APPS responsibility for which security is created |
| ACCESS_CODE | NOT NULL | CHAR(1) | Access code can be G(rant) or R(estrict) |
| START_DATE | NOT NULL | SYSDATE | Start date for the rule |
| END_DATE | | SYSDATE | End date for the rule |
| CREATED_BY | NOT NULL | NUMBER(15) | Standard WHO column |
| CREATION_DATE | NOT NULL | DATE | Standard WHO column |
| LAST_UPDATED_BY | NOT NULL | NUMBER(15) | Standard WHO column |
| LAST_UPDATE_LOGIN | | NUMBER(15) | Standard WHO column |
| LAST_UPDATE_DATE | NOT NULL | DATE | Standard WHO column |

Fig. 11

130

Return To Portal  Diagnostics  Logout  Preferences

**eRecord Security Rule Creation**

Text explaining the use of the page

Cancel  Apply

Secure Element    | Item Number |            131
Event Name        | |                         132
Secure Value      | 9999 |                     133
User              | SRPURI |                   134
Responsibility    | |                          135
Access Code       | Grant | ▽ | Grant Restrict | 136
Start Date        | |                          137
End Date          | |                          138

Cancel  Apply

**Fig. 12**

140

Search Documents                                          ⊻ ⊼ ✕

┌─Search────────────────────────────────────────────────┐
│                        144                              │
│   143    Simple  Advanced                               │
│                                                145      │
│          Event Name  | |                                │
│ 141      From Date   | |       146                      │
│          To Date     | |       147                      │
│          Signer      | |       148                      │
│                                                         │
│          149      Find    Clear    Cancel               │
└─────────────────────────────────────────────────────────┘

┌─Events──────────────────────────────────────────────────┐
│ 155                                              Print   │
│       Event    150   Identifier  151   Timestamp  152 Timezone  153   154 │
│ 142                                                      │
│                                                  Print   │
└──────────────────────────────────────────────────────────┘

**Fig. 13**

*Fig. 14*



*Fig. 15*

**Fig. 16**



**Fig. 17**

170



**Fig. 18**

180



**Fig. 19**

**Fig. 20**



**Fig. 21**